FORM PTO-1449 (Modified)				TH1647 05 (US)				
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Examiner initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriat	
MAD	AA	3,676,523	7/11/72	Mason	260	683.15D		
	AB	3,686,351	8/22/72	Mason	260	683.15D		
	AC	3,737,475	6/5/73	Mason	260	683.15D		
	AD	3,825,615	7/23/74	Lutz	260	683.15D		
	AE	4,020,121	4/26/77	Kister et al.	260	683.15D		
	AF	4,021,447	5/3/77	Rubin et al.	260	326.8		
	AG	3,702,886	11/14/72	Argauer et al.	423	328		
	АН	3,709,979	1/9/73	Chu	423	328		
PM	Al	3,832,449	8/27/74	Rubin et al.				
PARTE TAR			FOREIGN	PATENTI DOCUMENTS) }}!***			
		Document No.	Date	Country	Class	Subclass	<u>Translation</u> Yes No	
CNE	AL	WO 94/05761	3/17/94	World	C11D	3/10		
	AM	1,429,143	3/24/76	Great Britain	C11D	10/02		
	AN	WO 99/42553	8/26/99	World	C11D	3/43		
8VA	AO	0,884,298 A2	12/16/98	Europe	C07C	43/10	х	
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AA	AR	Myers, Drew, "Surfac USA) 1988 (ISBN 0-8	tant Science and 9573-399-0)	d Technology," pp. 82-85, V	CH Publish	ers, Inc. (Nev	v York, NY,	
	AS	K. Shinoda, "Principle by Mercel Dekker, Inc	s of Solution an a. 1978, pp. 292	d Solubility," translation in co 304	ollaboration	with Paul Be	cher, published	
pm	AT	Reid, V.W., G.F. Long Titration," <u>Tensile</u> 4, 1	man and E. He 967, pp. 292-30	inerth, "Determination of Ani 14	ionic-Active	Detergents t	by Two-Phase	
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Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing I	Date	
& D	ВА	4,482,531	11/13/84	Kuehl	423	329		-	
	BB.	3,950,496	4/13/76	Ciric	423	328			
	ВС	3,972,983	8/3/76	Ciric	423	328			
	BD	4,046,859	9/6/77	Plank et al.	423	328			
	BE	4,247,416	1/27/81	Doherty et al.	252	428			
	BF	4,086,186	4/25/78	Rubin et al.	252	430	·· ··· ·····		
	BG	4,046,859	9/6/77	Plank et al.	423	328			
	ВН	4,287,166	9/1/81	Dwyer et al.	423	325			
MA-	ВІ	4,247,728	1/27/81	Rubin et al.	585	467			
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CAR	BL	06073045	3/15/94	Japan	C07D	273/08	×		
	ВМ	03261779	11/21/91	Japan	C07D	309/24	Х		
	BN	JP 11-349507	12/21/99	Japan	C07C	43/11	Х		
Phi	ВО	100 20 899 A1	10/25/01	Germany	C07D	493/04	Х		
55		OTHER DOCUMENT	S (INCLUDING A)	THOR TITLE DATE: PERTINENT	PAGES	TOMESTIC	AN ELEPTOP	14:31	
Po	BR	B. E. Gordon, H. Rod	dewig and W. T	. Shebs, "A Double Label Ra emists' Society, Vol. 44, No.	diotrace	Approach to	Detergenc	у	
	BS	American Oil Chemist	ts' Society, Vol.	ovements in Detergency Pre 45, No. 5 (1968) pp. 377-38	0				
8M	вт	W. T. Shebs, "Radiois Marcel Dekker, Inc., N	sotope Techniqu New York (1987)	es in Detergency," Chapter) pp. 125-191	3, <u>Detero</u>	ency Theory	and Techn	ology,	
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EXAMINER: Initial if citation considered, wheth r rn t citatin is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to the applicant.

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Initial		Document No.	Date	Patentee	Class	Subclass	if Approp	riate	
0102	CA	4,495,303	1/22/85	Kuehl	502	62			
	СВ	4,397,827	8/9/83	Chu	423	326			
	СС	4,640,829	2/3/87	Rubin	423	328			
	CD	4,568,654	2/4/86	Valyocsik	502	62			
	CE	4,698,217	10/6/87	Valyocsik	423	328C	<u> </u>		
	CF	4,647,442	3/3/87	Derouane et al.	423	306			
	CG	4,619,818	10/28/86	Derogane et al.	423	306			
	СН	4,954,325	9/4/90	Rubin et al.	423	328		·	
PAS	CI	5,236,575	8/17/93	Bennett et al.	208	46			
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MAS	CR	Roger Hunter et al., "	'Allylation Using	Allylborates," TETRAHE	DRON, Vol. 50), No. 3, 1994	4, pp. 871	-888	
	ļ	Pirait Portolo et al. "	A Coloctivity of A	ctivated Ketal Reduction	With Parana (Dimothyl Culf	ido " IOU	DNIAL	
49	cs			, No. 24, 1993, pp. 6756-		Jimetryi Sun	ide, JOO	NIVAL	
PA	СТ		ents With Optica	atalyzed Acetalization of ally Active Diols," JOURI				ol. 52,	
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FORM PTO-1449 (Modified)			ATTY, DOCKET NO. TH1647 05 (US) APPLICATION NUMBER							
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ME	DA	3,308,069	3/7/67	Wadlinger et al.	252	455				
	DB	Re. 28,341	2/18/75	Wadlinger, et al.	208	120				
	DC	3,058,805	10/16/62	Weber	23	113				
	DD	3,130,007	4/21/64	Breck	23	113				
	DE	3,996,337	12/7/76	Stabenow et al.	423	328				
	DF	4,440,871	4/3/84	Lok et al.	502	214				
	DG	5,059,567	10/22/91	Linsten et al.	502	64				
	DH	3,462,525	8/19/69	Levinsky	424	56		<u></u>		
RAA	DI	3,428,654	2/18/69	Rubinfeld et al.	260	327				
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	DL DM DN DO	OTHER DOCUMEN F. Wang etal., Synlet	TS (INCEUDING) t, (1998) pp. 24	Country NUTHOR TITLE: DATE PERTIN 15-245 3, (1985), pp. 246-248		Subclass	Translat Yes	ion No		
	DL DM DN DO DR DS	OTHER DOCUMEN F. Wang etal., Synlet A. A. Volkov et al., Do	TS (INCEUDING) t, (1998) pp. 24	Country NUTHOR TITLE: DATE PERTIN 15-245 3, (1985), pp. 246-248	ENT PAGES:	Subclass	Translat Yes	ion No		

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an	EA	3,420,875	1/7/69	Di Salvo et al.	260	513		
1	EB	3,506,580	4/14/70	Rubinfeld et al.	252	138		
	EC	3,579,537	5/18/71	Rubinfeld et al.	260	327		
	ED	3,524,864	8/18/70	Rubinfeld et al.	260	327		
	EE	5,057,627	10/15/91	Edwards	568	618		
	EF	6,087,311	7/11/00	Van Dijk	510	294		
	EG	6,083,893	7/4/00	Zint et al.	510	221		
	EH	6,159,920	12/12/00	Ridyard	510	324		
MY	EI	6,153,574	11/28/00	Janssen	510	224		
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	ER	Anionic Surfactants	, Volume 7, Pa	art I, edited by Warner M. L	infield, 19	976 by Marc	el Dekker, Inc.	
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FORM PTO	-1449 (A	flodified)		ATTY. DOCKET NO.	APPLICAT	ION NUMBER	Sheet 6 of 6	; —	
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PAC	FA	2,778,855	1/22/57	Shokal et al.	260	613	п арргорнате	-	
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	FB	4,503,275	3/5/85	Harris et al.	568	866			
	FC	4,317,938	3/2/82	Lutz	568	619		_	
	FD	4,721,816	1/26/88	Edwards	568	618			
	FE	4,721,817	1/26/88	Edwards	518	618		_	
	FF	2,808,442	10/1/57	Smith et al.	260	611		_	
	FG	5,912,408	6/15/99	Trinh et al.	8	142	-		
	FH	4,544,512	10/1985	Hozumi et al.	558	169	<u> </u>		
OR	FI	Ser. No. 10/025,080	12/19/01	Edwards et al.				_	
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FORM PTO-	1449 (N	lodified)	ATTY. DOCKET NO. TH1647 06 (US)	APPLICATION NUMBER 10/679,174				
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·		sheets if necessary)	MAY 1 7 2004	FILING DATE October 3, 2003	GROUP ART UNIT 1621			
REFERENCED	ESIGNA	MON		ient documents				
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filin if Appro	g Date priate
TAD	AA	3,875,202	4/1/75	Steckler	260	458		
V	AB	4,814,514	3/21/89	Yokota et al.	568	608		
PNA	AC	4,885,379	12/5/89	Abend	558	34		
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AM5	AL	JP 10237497	9/8/98	Japan (English Abstract)	C11D	7/54		X
Roberte	AM	JP 03261779	11/21/91	Japan (English Abstract)	C07D	309/24		X
PAr	AN	JP 06073045	3/15/94	Japan (English Abstract)	C07D	323/00		Х
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